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## Abstract

5 A base transceiver station for a radio communication system comprises a transmitter unit (TU), a receiver unit (RU) and a transmit path between the transmitter unit (TU) and an antenna . The receiver unit (RU) determines output data from received signals and the transmitter unit (TU) converts input data into transmitted signals and pre-distorts the transmitted signals using at least one compensation value. The base transceiver station comprises also a branching  
10 unit for transferring at least a portion of a transmitted signal from the transmit path to the receiver unit (RU) and a processing unit (PU) which is adapted to receive a representation of the input data and the output data. The processing unit (PU) compares the input data to the output data, determines a first compensation value for the pre-distortion according to the comparison and  
15 updates the compensation value of the transmitter unit (TU) with the first compensation value. Methods and computer programs embodying the invention are also described.

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